Cengage Learning

BUSINES MATH USING EXCEL

Prepares users for the business world by incorporating math concepts using two approaches. The first approach uses the traditional method of calculating. The second approach teaches those same concepts using the functions of Excel.

Teacher Edition

9780538726030 $150.00

Annotated Instructor's Edition, Business Math Using Excel

Essential Items

Ancillary Items

Free with Purchase items

ISBN
9780538726016

Contract Price
$77.00

Grade
9,10,11,12

TYPE
P1

Copyright
2005

Author
Burton

Edition
1st

Content
Business Math

Readability
9.4

Accessibility
Nimas

Research

Provided by the Publisher

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BUSINES MATH USING EXCEL			
Type - P1	Author - Burton		
Copyright - 2005	Edition - 1st	Readability - 9.4	
Course - Business Math		Grade(s) - 9,10,11,12	
Teacher Edition ISBN if applicable 9780538726030			

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Overall Recommendation: **Recommended as BASAL**

if this box is not checked, the evaluators have chosen NOT recommend as basal

Overall Strengths, Weaknesses, Comments:

This would be an excellent choice of a text for a 4th year math course after Core Content classes have been taught. The course focuses on real world/real life situations all students will face. The text is designed to be used in conjunction with a computer lab utilizing Excel. Though this would greatly enhance the course it is written to function without Excel as well.

NIMAC Accessibility	N
Ancillary	Yes
Free with Purchase	Yes
Research	No

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CRITERIA

This basal resource …

A. Encompasses KY Content Standards & Grade Level Expectations	**Moderate Evidence**

Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 5 Big Ideas of mathematics to the following extent:	
a) Number Properties and Operations	Moderate Evidence
b) Measurement	Not Applicable
c) Geometry	Not Applicable
d) Data Analysis and Probability	Moderate Evidence
e) Algebraic Thinking	Little or No Evidence
2) Addresses content-specific enduring understandings from the related Program of Studies standards.	Strong Evidence
3) Addresses content-specific skills and concepts from the related	Moderate Evidence

Program of Studies standards.

4) Content addressed is current, relevant and non-trivial	Strong Evidence
5) Provides opportunities for critical thinking/reasoning	Strong Evidence

6) Strengths, Weaknesses, Comments:

- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

Strengths: Real world applications; real life skills; presented in an easy to understand manner; requires higher level thinking of students without getting bogged down in manipulation of symbols

Weaknesses:

B. Functionality & Suitability — Moderate Evidence

1) Suitability — **Strong Evidence**

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) Content quality — **Moderate Evidence**

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community
- Interconnections among mathematical topics

3) Connections to Literacy — **Moderate Evidence**

- Employs a variety of reading levels and is grade/level appropriate
- Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- The text is engaging and facilitates learning
- Embedded activities enhance the understanding of the text
  Note: may apply to either student or teacher editions

4) Connections to Technology — **Strong Evidence**

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data
- Embeds web links as a mathematics resource.

5) Support for Diverse Learners **Little or No Evidence**

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties
  Note: may apply to either student or teacher editions

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Strengths: content is applicable to all students; applications are truly real world; content is continually reinforced by thechnology; ample opportunities for reading and writing connections; student cd has all excel activity templates

Weaknesses: lack of a glossary; extensive vocabulary lists; lack of support for differentiated instruction

C. Supports Inquiry and Skill Development **Strong Evidence**

1) Promotes Inquiry, research and Application of Learning Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  Note: may apply to either teacher or student edition

2) Skill Development Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

Strengths: "workplace skills projects", "critical thinking", and "math and surfing the net" activities; technology integration in skill development

D. Supports Best Practices of Teaching and Learning — Strong Evidence

1) Engages Students — Strong Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated

Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction — Moderate Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

Strengths: teacher cd has two assessments for each chapter; text includes critical thinking and web based research activities allowing for varying levels of DOK

Weakness: assessments do not address differentiated learning activities

E. Has an Organization/ Format that Supports Learning and Teaching — Strong Evidence

1) Organizational Quality — Strong Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space,

print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text) Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Strengths: excellent and well defined illustrations; extremely well organized and easy to follow; spiral ring binding facilitates use in a computer lab
Weakness: the soft cover and spiral binding may not prove durable

F. Has available Ancillary/ Gratis Materials
Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F **Little or No Evidence**

1) Ancillary/Gratis Materials
- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

2) Strengths, Weaknesses, Comments:
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

No ancillary material/gratis materials available